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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/731,500	12/07/2000	Giuseppe Mastrangelo	001259	1259
7:	590 06/12/2006		EXAM	INER
Mark G. Kachigian			WANG, TED M	
Head, Johnson	& Kachigian		···	
228 West 17th Place			ART UNIT	PAPER NUMBER
Tulsa, OK 74119			2611	
			DATE MAILED: 06/12/2000	4

Please find below and/or attached an Office communication concerning this application or proceeding.

		1	7				
	Application No.	Applicant(s)	*				
	09/731,500	MASTRANGELO, GIUSEPPE					
Office Action Summary	Examiner	Art Unit	_				
	Ted M. Wang	2611					
The MAILING DATE of this communication Period for Reply	n appears on the cover sheet with	the correspondence address					
A SHORTENED STATUTORY PERIOD FOR R WHICHEVER IS LONGER, FROM THE MAILIN - Extensions of time may be available under the provisions of 37 C after SIX (6) MONTHS from the mailing date of this communication - If NO period for reply is specified above, the maximum statutory period for reply within the set or extended period for reply will, by Any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b).	IG DATE OF THIS COMMUNICA FR 1.136(a). In no event, however, may a rep on. period will apply and will expire SIX (6) MONTH statute, cause the application to become ABAI	ATION. ly be timely filed IS from the mailing date of this communication. NDONED (35 U.S.C. § 133).					
Status							
1)⊠ Responsive to communication(s) filed on	22 March 2006.						
	This action is non-final.						
3) Since this application is in condition for all	☐ Since this application is in condition for allowance except for formal matters, prosecution as to the ments is						
closed in accordance with the practice un-	der <i>Ex parte Quayle</i> , 1935 C.D.	11, 453 O.G. 213.					
Disposition of Claims							
4)⊠ Claim(s) <u>1-16</u> is/are pending in the application	ation.						
4a) Of the above claim(s) is/are wit	hdrawn from consideration.						
5) Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>1-16</u> is/are rejected.							
7) Claim(s) is/are objected to.							
8) Claim(s) are subject to restriction a	and/or election requirement.						
Application Papers	į	•					
9)☐ The specification is objected to by the Exa	miner.						
10)⊠ The drawing(s) filed on <u>22 July 2005</u> is/are	e: a)⊠ accepted or b)□ objecte	ed to by the Examiner.					
Applicant may not request that any objection to	o the drawing(s) be held in abeyanc	e. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the co	•						
11)☐ The oath or declaration is objected to by the	ne Examiner. Note the attached	Office Action or form PTO-152.					
Priority under 35 U.S.C. § 119							
12) △ Acknowledgment is made of a claim for fo a) △ All b) ☐ Some * c) ☐ None of:		19(a)-(d) or (f).					
	 1. ☐ Certified copies of the priority documents have been received. 2. ☐ Certified copies of the priority documents have been received in Application No 						
3. Copies of the certified copies of the	•						
application from the International B	· ·	• • • • • • • • • • • • • • • • • • •					
* See the attached detailed Office action for	• • • • • • • • • • • • • • • • • • • •	eceived.					
Attachment(s)							
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-94) 	4) Interview Su	mmary (PTO-413) Mail Date					
 Notice of Draftsperson's Patent Drawing Review (PTO-94 Information Disclosure Statement(s) (PTO-1449 or PTO/S Paper No(s)/Mail Date 		ormal Patent Application (PTO-152)					
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DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 22 March 2006 has been entered.

Response to Arguments

2. Applicant's arguments with respect to claims 1-13 have been considered but are moot in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 4. Claims 1-3, 5-9, 11, 14 and 15 are rejected under 35 U.S.C. 102(b) as being anticipated by Kaku et al. (EP 0798875, listed in the IDS filed 4/20/01, "Kaku" hereinafter).

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- With regarding claim 1, Kaku teaches a method of installation of a receiver to receive broadcast data which is broadcast to the location of the receiver (col. 3, lines 21-32, col. 4, lines 7-10), said method comprising: measuring the power level of incoming data signals used to generate at least video or audio data (column 13 lines 1-32, where Kaku teaches transmitting and receiving image information or data that is a video picture information between two modems) at two predetermined spaced points on the signal band by measuring the content of automatic gain control converters within the receiver (col. 4, lines 11-19, col. 8, lines 17-21), providing an amplitude correction filter which can be selectively operated on the data signals allow the correction of amplitude variations with frequency, the selective operation of the filter dependent upon and responsive to the power level measurements obtained (col. 8, lines 29-34).
- With regard claim 2, Kaku further teaches wherein obtaining the power level measurements occurs automatically and is followed by any required correction as pad of an automatic installation procedure (col. 4, lines 7-10 and col. 36, lines 13-21).
- With regard claim 3, Kaku further teaches wherein two measurements are taken,
 referred to as the high end signal and the low end signal (col. 8, lines 17-21).
- □ With regard claim 5, Kaku further teaches wherein if the difference in power level between the points is greater than a predetermined level then the power level to said broadcast data receiver is adjusted so that the incoming signal is within a known power range (col. 25, lines 6-19).

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- With regard claim 6, Kaku further teaches the method utilizes the ability to use relative signal power level rather than absolute power level to install the receiver (col. 8, lines 29-34).
- data which is transmitted and received by the apparatus and passed to the receiver via an radio frequency input from the data carrying network (col. 3, lines 21-32 and col. 4, lines 7-10), said receiver comprising: a linearization circuit which can be selectively activated to operate with the receiver control system upon comparison of measurements of the power levels at two predetermined points on the signal passed to the radio frequency input and, if the comparison reveals a difference which is greater than a predetermined level, the linearization circuit is activated to adjust the receiver settings during an installation procedure for the broadcast data receiver at a location at which the receiver is to be subsequently used (col. 8, lines 17-21 and 29-34 and col. 25, lines 2-19).
- With regard claim 8, Kaku further teaches wherein said receiver is connected to a data supply network in which the data is carried by a cable network (col. 1, lines 4-6).
- □ With regard claim 9, Kaku further teaches wherein said linearization circuit is selectively activated automatically by said receiver control system upon specified criteria for activation being met (col. 25, lines 2-19).
- With regard claim 11, Kaku further teaches wherein said linearization circuit
 performs cable slope correction internally in said broadcast data receiver and this

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can be applied to improve the performance of the broadcast data receiver at the location of installation (col. 25, lines 6-19).

- With regard claim 14. Kaku teaches a method of installation of a receiver to receive digital data which is broadcast to the location of the receiver (col. 3, lines 21-32, col. 4, lines 7-10), said method comprising: measuring the power level of incoming frequency signals at two predetermined spaced points on the signal band (col. 4, lines 11-19, col. 8, lines 17-34, col. 10, lines 29-37, col.11 lines 12-27, col. 17, lines 8-18, and col. 23, line 42 - col. 24 line 11, and Fig. 19 element 6, REF1 and REF2), providing means for the comparison of the measurements and if the comparison shows a value within a predetermined parameter an indication is provided to the installer and if the comparison shows a value out with the predetermined parameter a control system in the receiver adjusts the operation of one or a combination of components within the receiver until the value is within the predetermined parameter (col. 8, lines 17-24, col. 25, lines 2-19, Fig.3 and 9, where the compared signal from adder 6 output is integrated 8 and feedback to the LEQ for correction and the operation is repeated until the value is within the predetermined parameter).
- With regard claim 15, Kaku further teaches wherein the control system adjusts
 the operation with reference to at least one algorithm in the control system (col.
 25, lines 2-19, Figs. 24, 25, 27).

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Claim Rejections - 35 USC § 103

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 6. Claims 12, 13 and 16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kaku et al. (EP 0798875, listed in the IDS filed 4/20/01, "Kaku" hereinafter) in view of Bazes et al. (U.S. Patent No. 5,991,339, "Bazes" hereinafter).
 - With regard claims 12 and 16, Kaku teaches the claimed invention (see the rationale applied to claims 11 and 14 above), but does not particularly teach changing the values of the inductors, capacitors and/or resistors to obtain one of a number of equalization slopes to bring the difference between the high end signal and low end signal within a specific margin.

However, the use of adjustable inductors, capacitors and/or resistors to control the frequency response of an equalizer is well known in the art. Bazes teaches an adaptive equalizer that can adapt to various transmission medium lengths and signal degradation levels (abstract). The transfer function of the equalizer may be controlled by the adjustment signal that specified the resistance value (col. 2, lines 63-67). Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to adjust the values of

resistors to control the frequency response of the equalizer such that the equalizer can adapt to various transmission medium lengths and signal degradation levels.

- with regard claim 13, Kaku in view of Bazes does not teach that the specific criteria is for a difference between the high end and the low end signal values greater than 10 dB. However, the selection of the difference value as the specific criteria would not change the operation of the system of Kaku/Bazes. Such value is arbitrarily selectable to meet the system requirement such as error tolerance of the error caused by attenuation. Therefore, the claimed value of 10 dB is clear a matter of design choice, dictated by the system requirement and user's need.
- 7. Claim 4 is rejected under 35 U.S.C. 103(a) as being unpatentable over Kaku et al. (EP 0798875, listed in the IDS filed 4/20/01, "Kaku" hereinafter) in view of Leung et al. (U.S. Patent No. 6,542,540, "Leung" hereinafter).
 - With regard claim 4, Kaku teaches the claimed invention (see the rationale applied to claim 1 above), but does not particularly teach that no linearization via the filter is performed if the high end signal level is greater than the low end signal level.

However, whether to perform linearization for a particular situation is merely a design option, dictated by the user's error tolerance for the error caused by the attenuation. Leung teaches that high frequency boost is not required when the high frequency attenuation is relatively small (col. 6, lines 1-3).

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Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made not to perform linearization when the high frequency is small, so as to reduce the cost and initialization of the modem.

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- 8. Claim 10 is rejected under 35 U.S.C. 103(a) as being unpatentable over Kaku et al. (EP 0798875, listed in the IDS filed 4/20/01, "Kaku" hereinafter) in view of Porter et al. (U.S. Patent No. 6,167,081, "Porter" hereinafter)
 - applied to claim 8 above), but does not particularly teach that the install activates the linearization circuit upon receiving an indication that specified criteria have been met. However, such feature is well known in the art. Porter teaches a receiver that activates the equalizer when receiving an indication that specified criteria has been met (col. 6, lines 50-67). Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to incorporate the feature of activating linearization circuit as claimed, so as to activate the linearization circuit only when required and consequently to save the cost and time caused by the linearization circuit.

Conclusion

- 9. However, none of references teach detailed connection as recited in claim.
- 10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ted M. Wang whose telephone number is 571-272-3053. The examiner can normally be reached on M-F, 7:30 AM to 5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chieh Fan can be reached on 571-272-3042. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Ted M Wang Examiner Art Unit 2611

Ted M. Wang

KEVIN BURD
PRIMARY EXAMINER